

TRANSMISSION-TYPE LIGHT-SCATTERING SHEET AND ITS PRODUCTION

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Abstract of JP2001031774

PROBLEM TO BE SOLVED: To obtain a light-scattering sheet which imparts diffusibility and directivity to reflection light by forming the sheet of a sea polymer and an island polymer having a refractive index different from that of the sea polymer by a specified value, and by bringing the particle size of the island polymer, the wt. ratio of sea polymer to island polymer, and the sheet thickness each into a specified range.

SOLUTION: The sheet is formed of a sea polymer and an island polymer having a refractive index different from that of the sea polymer by 0.01-0.08. The average particle size of the island polymer is 0.5-10 μm ; the wt. ratio of sea polymer/island polymer is (70/30)-(40/60); and the sheet thickness is 5-200 μm . A thermoplastic polymer is suitable as the sea polymer, and a resin having a refractive index different from that of the sea polymer is suitably selected and used as the island polymer. The average particle density of the island polymer is adjusted to about 1-100 (1010/cm³). The use of such a sheet enable scattered light to be directed usually in a range of diffusion angle of 5-50 deg..

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